

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Muller, et al.
Appl. No.: 10/553,293
Conf. No.: 8643
Filed: November 18, 2005
Title: POLYMER NETWORKS
Art Unit: 1796
Examiner: G. Mesh
Docket No.: 3712161-88

DECLARATION UNDER 37 C.F.R. § 1.132

Sir:

I hereby state as follows:

1. I am a named inventor of the above-identified patent application and am therefore familiar with the invention disclosed therein.

2. The data shown in Table 1 below represents the specific amounts of P(j) [%] versus Elongation at Break [%] using a twin screw extruder shown in Figure 3 of the above-identified application.

Table 1

Content P(j) [%]	Elongation at break [%]
0.00	673
3.00	762
7.00	762
14.00	680
20.00	514

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3. The first polymer P(i) has a degree of polymerisation $DP(P(i)) > 500$ and at least one type of crystallisable sequences A having a degree of polymerisation $DPs(P(i))$ of these sequences > 20 . The second polymer P(j) is made up of the same monomer units as the sequences A of P(i) and the degree of polymerisation $DP(P(j))$ of P(j) is $20 < DP(P(j)) < 500$.

4. The data in Table 1 shows that a polymer mixture consisting of at least one synthetic first polymer P(i) and between 3% to 14% by weight of at least one second polymer P(j) produced a compound having an increased elongation at break when mixed in a twin screw extruder as compared to the first synthetic polymer P(i) alone (i.e., $P(j) = 0$).

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001, Title 18, United States Code, and that willful false statements may jeopardize the validity of this patent and any patent issuing therefrom.

Date: 26.8.2010

R. Müller